

means for transforming on the transmit path digital data encoded in the DMT line code from base band-to-carrier band and vice versa on the receive path,

means for filtering on the transmit path and the receive path digital data encoded with the CAP line code;

means for converting on the transmit path digital data encoded in the CAP line code between carrier-to-carrier band and vice-versa on the receive path; and

means for converting on the transmit path the digital data in the DMT line code and the CAP line code to an analog transmission and vice versa on the receive path.

19. (New) The means for X-DSL communication of Claim 18, comprising:

means for encoding on a transmit path the digital data; and

means for decoding on a receive path the digital data.

20. (New) The means for X-DSL communication of Claim 18, comprising:

means for upconverting on the transmit path digital data in a CAP line code from base band-to-carrier band; and

means for downconverting on a receive path digital data in the CAP line code from carrier band-to-base band.

21. (New) The means for X-DSL communication of Claim 18, comprising:

means for buffering digital data processed in selected ones of the means for encoding, means for transforming, means for filtering, the first means for converting and the second means for converting; to effect a pipelined processing of a plurality of communication channels.

REMARKS

Applicant preliminarily amends the original claims as filed with the cancellation of Claim 1 and the addition of new claims 2-21. Support for the amended claims can be found throughout the Specification.

Entry of the proposed preliminary amendment is respectfully requested. Attached hereto is a marked-up version of the changes made to claims by the current amendment. The

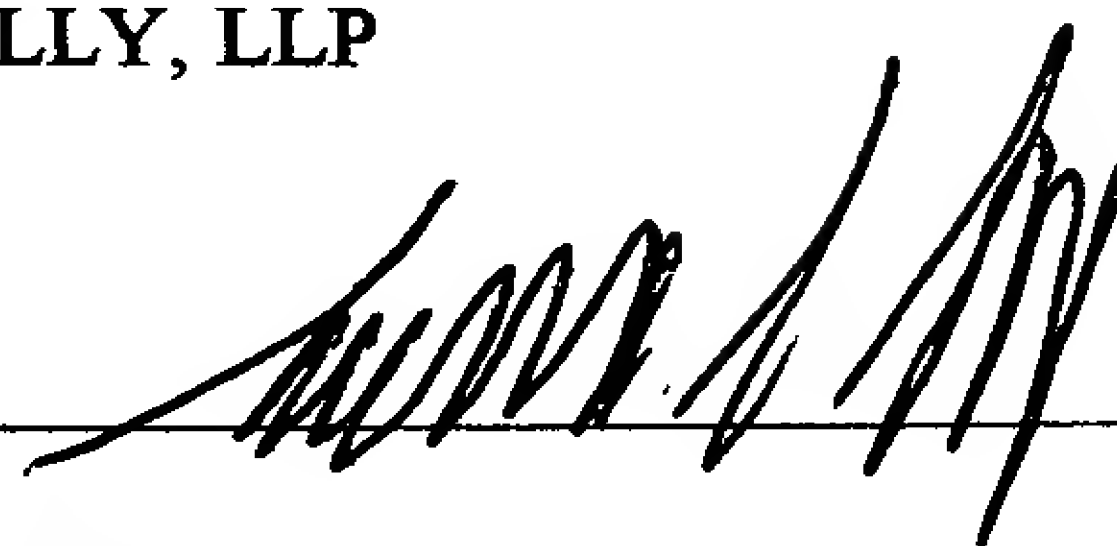
attached page is captioned "Version with marking to show changes made." Favorable consideration is respectfully solicited.

Respectfully submitted,

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Date: June 28, 2001

Signed: _____



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In the Claims:

Claim 1 has been cancelled. New Claims 2-21 have been added.

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